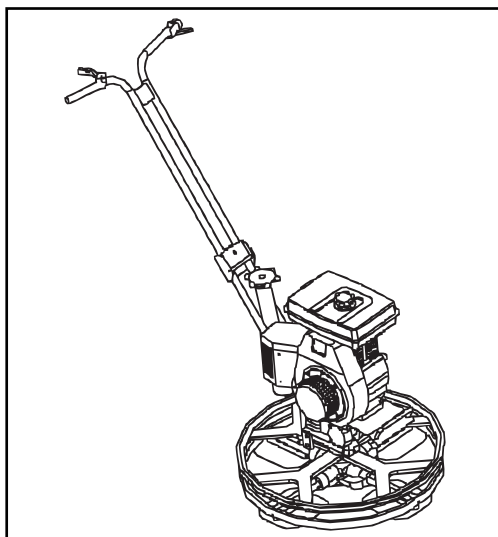




PRO 600X



- Spare Parts Book
- Pièces détachées
- Libro Despiece
- Lista de Peças
- Onderdelen Boekje
- Reservedele Skrift
- Ersatzteilhandbuch
- Manuale dei ricambi
- Bruksanvisning
- Bruksanvisning
- Varaosaluettelo
- Lista Części Zamiennych
- Запасные части Книга
- Varuosade nimekiri
- Rezerves daļu saraksts
- Atsarginiu daliu sarašas
- Част Списък
- αντικατάσταση κομμάτια βιβλίο
- Část Barevný pruh
- Lista Pieselor de Schimb
- Részek Oldalra dől

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EC DECLARATION OF CONFORMITY / DECLARATION CE DE CONFORMITE / DECLARACIÓN DE CONFORMIDAD CE / DECLARAÇÃO CE DE CONFORMIDADE / EG-VERKLARING VAN OVEREENSTEMMING / EF OVERENSSTEMMELSESERKLÆRING / EGKONFORMITÄT SERKLÄRUNG / DICHIARAZIONE CE DI CONFORMITÀ / EG-VERKLARING VAN OVEREENSTEMMING / EC SAMSVARSERKLÆRING / EY-YHDENMUKAISUUSILMOITUS

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PRODUCT TYPE	TYPE DE PRODUIT	TIPO DE PRODUCTO	TIPO DE PRODUTO:	PRODUCTTYPE.....	PRODUKTTYPE.....
MODEL	MODELE.....	MODELO	MODELO:.....	MODEL	MODEL
SERIAL No.....	N° DE SERIE	N° DE SERIE	NO. DE SÉRIE:	SERIENUMMER	SERIENR.
DATE OF MANUFACTURE...	DATE DE FABRICATION.....	FECHA DE FABRICACIÓN....	DATA DE FABRIC.....	FABRICAGEDATUM	FREMSTILLINGSDATO.....
SOUND POWER LEVEL..... MEASURED (GUARANTEED):	NIVEAU DE PUISSANCE SONORE MESUREE (GARANTIE)	NIVEL DE POTENCIA ACÚSTICA MEDIDO (GARANTIZADO)	NIVEL DE POTÊNCIA DE SOM MEDIDO (GARANTIDO)	GEMETEN GELUIDSSTERKTE/NIVEAU (EGARANDEERD)	LYDEFFEKTNIVEAU MÅLT (GARANTERET)
PRODUKTTYP	TIPO PRODOTTO.....	PRODUKTTYP	PRODUKTTYPE.....		
MODELL	MODELLO	MODELL	MODELL.....		
SERIENNR.....	SERIE N°	SERIENR.	SERIENR		
HERSTELLUNGSDATU.....	DATA DI FABBRICAZIONE.....	TILLVERKNINGSDATUM.....	PRODUKSJONS DATO.....		
SCHALLLEISTUNGSPEGEL ... GEMESSEN (GARANTIERT)	LIVELLO..... POTENZA SONORA MISURATA (GARANTITA)	LJUDSTYRKA..... UPPMÄTT (GARANTERAD)	LYDKRAFTNIVÅ..... MÅLT (GARANTERT)		
				TUOTETYYPI.....	
				MALLI.....	
				VALMISTUSNRO.....	
				VALMISTUSPÄIVÄ.....	
				ÄÄNENVOIMAKKUUDEN TASO..... MITATTU (TAATTU)	

Signed by:
Signature:
Medido por:
Assinado por:
Getekend door:
Uunderskrevet af:
unterzeichnet vo:
Firmato da:
Undertecknat:
Signatur:
Allekirjoitus:


Ray Neilson

Managing Director - On behalf of BELLE GROUP (SHEEN) UK.
Le Directeur Général - Pour le compte de la SOCIETE BELLE GROUP (SHEEN) UK.
Director Gerente - En nombre de BELLE GROUP (SHEEN) UK.
Director-Geral - Em nome de BELLE GROUP (SHEEN) UK.
Algemeen Directeur - Namens BELLE GROUP (SHEEN) UK.
Administrerende direktør - På vegne af BELLE GROUP (SHEEN) UK.
Generaldirektor - Im auftrag von BELLE GROUP (SHEEN) UK.
Amministratore Delegato - Per conto di BELLE GROUP (SHEEN) UK.
V.D. - På vägnar av BELLE GROUP (SHEEN) UK.
Managing Director - på vegne av SOCIETE BELLE GROUP (SHEEN) UK.
Toimitusjohtaja - BELLE GROUP (SHEEN) UK:n puolesta.





How To Use This Manual

This manual has been written to help you operate and service the Pro 600X safely.
This manual is intended for dealers and operators of the Pro 600X.

Foreword

The '**Environment**' section gives instructions on how to handle the recycling of discarded apparatus in an environmentally friendly way.
The '**Machine Description**' section helps you to familiarize yourself with the machine's layout and controls.
The '**General Safety**' and '**Health and Safety**' sections explain how to use the machine to ensure your safety and the safety of the general public.
The '**Trouble Shooting**' guide helps you if you have a problem with your machine.
The '**Servicing**' section is to help you with the general maintenance and servicing of your machine.
The '**Warranty**' Section details the nature of the warranty cover and the claims procedure.
The '**Declaration of Conformity**' section shows the standards that the machine has been built to.

Directives with regard to the notations.

Text in this manual to which special attention must be paid are shown in the following way:



CAUTION

The product can be at risk. The machine or yourself can be damaged or injured if procedures are not carried out in the correct way.



WARNING

The life of the operator can be at risk.



WARNING



WARNING

*Before you operate or carry out any maintenance on this machine **YOU MUST READ** and **STUDY** this manual.*

KNOW how to safely use the unit's controls and what you must do for safe maintenance. (NB Be sure that you know how to switch the machine off before you switch on, in case you get into difficulty.)

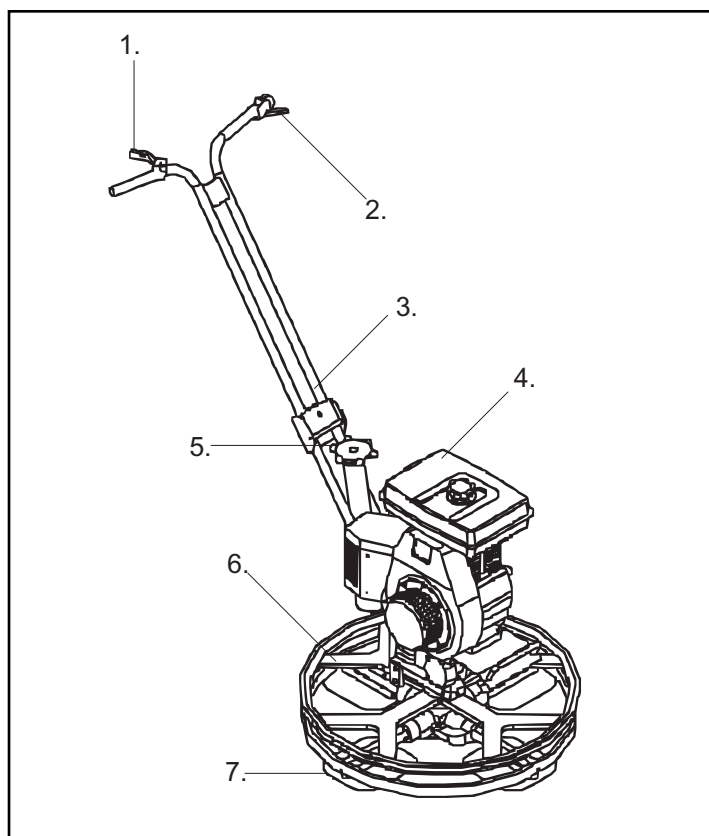
ALWAYS wear or use the proper safety items required for your personal protection. If you have **ANY QUESTIONS** about the safe use or maintenance of this unit, ASK YOUR SUPERVISOR OR CONTACT: **BELLE GROUP (UK): +44 (0) 1298 84606**



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Machine Description

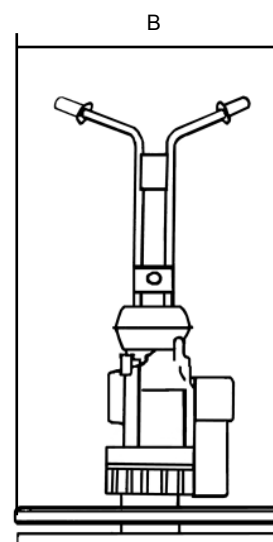
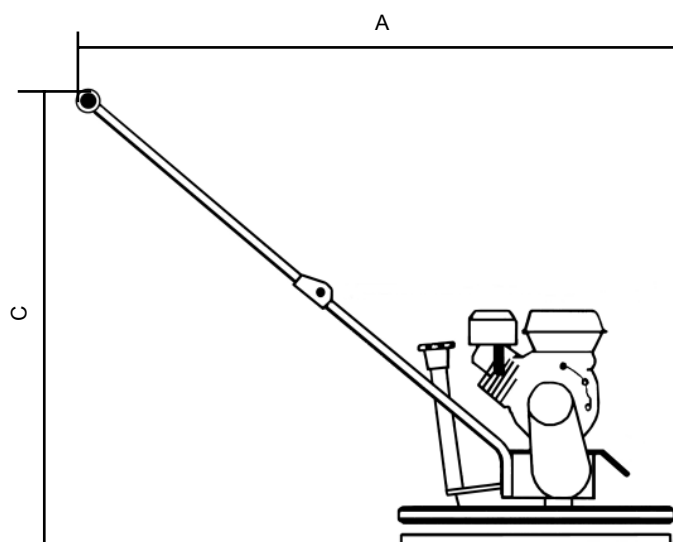


- 1. Gas Switch
- 2. Safety / Stop Switch
- 3. Handle
- 4. Engine
- 5. Blade Adjustment Mechanism
- 6. Guard Ring
- 7. Blades

Technical Data



	PRO 600X
A - Machine Length (in)	55.1
B - Machine Width (in)	25.6
C - Machine Height (in)	39.4
Engine - Honda Petrol	GX120 (4Hp)
Engine - Robin Petrol	EX13 (4.5Hp)
Maximum Torque	115





General Safety

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the Pro 600X, consult your supervisor or Belle Group.



WARNING

Improper maintenance can be hazardous. Read and Understand this section before you perform any maintenance, service or repairs.

- This equipment is heavy and must not be lifted single-handedly, either **GET HELP** or use suitable lifting equipment.
- Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance.
- Personal Protective Equipment (PPE) must be worn by the operator when ever this equipment is being used (see Health & Safety).
- Make sure you know how to safely switch this machine **OFF** before you switch it **ON** in case you get into difficulty.
- Always switch **OFF** the engine before transporting, moving it around the site or servicing it.
- During use the engine becomes very hot, allow the engine to cool before touching it. Never leave the engine running and unattended.
- Never remove or tamper with any guards fitted, they are there for your protection. Always check guards for condition and security, if any are damaged or missing, **DO NOT USE THE PRO 600X** until the guard has been replaced or repaired.
- Do not operate the machine when you are ill, feeling tired, or when under the influence of alcohol or drugs.

Fuel Safety



WARNING

Petrol is flammable. It may cause injury and property damage. Shut down the engine, extinguish all open flames and do not smoke while filling the fuel tank. Always wipe up any spilled fuel

- Before refuelling, switch off the engine and allow it to cool.
- When refuelling, **DO NOT** smoke or allow naked flames in the area.
- Spilt fuel must be made safe immediately, by using sand. If fuel is spilt on your clothes, change them.
- Store petrol in an approved, purpose made container away from heat and ignition sources.



Health And Safety

Vibration.

Some vibration from the trowelling operation is transmitted through the handle to the operator's hands. **DO NOT** exceed the maximum usage times.

PPE (Personal Protective Equipment).

Suitable PPE must be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe capped footwear.

Wear clothing suitable for the work you are doing. Tie back long hair and remove any jewellery which may catch in the equipment's moving parts.

Electric Machines.

Electricity can kill! Always ensure that the machine is disconnected from the power supply before carrying out any maintenance/repairs. Never use the machine in wet conditions.

Petrol Machines.

Fuel.

Do not ingest fuel or inhale fuel vapours and avoid contact with your skin. Wash fuel splashes immediately.

If you get fuel in your eyes, irrigate with copious amounts of water and seek medical attention as soon as possible.

Exhaust Fumes



WARNING

The exhaust fumes produced by this equipment are highly toxic and can kill!

Do not operate the Pro 600X indoors or in a confined space, make sure the work area is adequately ventilated.

Pre-start Checks



Pre start-up inspection.

The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the service section for detailed guidance. If any fault is discovered, the Pro 600X must not be used until the fault is rectified.

1. Thoroughly inspect the Pro 600X for signs of damage. Check components are present and secure. Pay special attention to the Drive Belt safety guard fitted between the engine and gearbox unit.
2. Check fluid lines, hoses filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
3. Check the engine oil level and top up as necessary.
4. Check the engine fuel level and top up as necessary.
5. Check for fuel and oil leaks.

Operating Instructions



WARNING

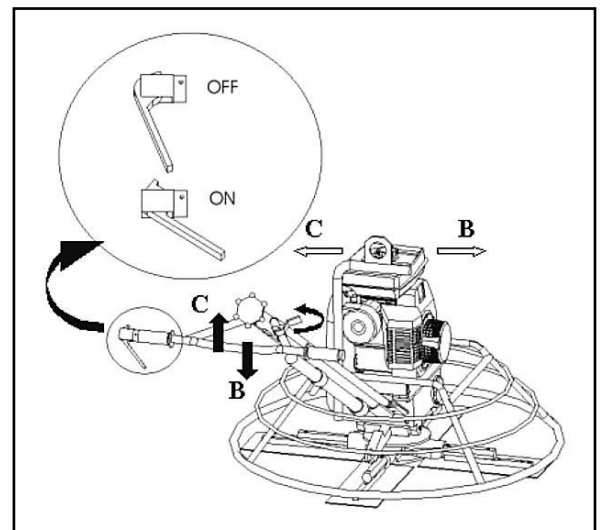
Before you operate or carry out any maintenance on this machine **YOU MUST READ** and **STUDY** this manual.

Starting Procedure

- Be sure the fuel tank is full. Use the recommended fuel to run the engine from its instruction booklet
- Check engine oil levels
- Turn the engines stop switch clockwise to the position 'I'.
- Open the fuel cock.
- Set the speed control lever 1/3 of the way towards the high speed position.
- If the engine is warm or the ambient temperature is high, close the choke lever half way, or keep it open fully. If the engine is cold, or the ambient temperature is low, close the choke lever.
- Pull the starter handle slowly until the resistance is felt. Return the handle to its original position and pull swiftly.
- Allow a longer warm up period in colder temperatures.

Operation

- Guiding the trowel on the slab is very simple. Get into the operator's position behind the centre of the handle, attain a good footing and apply the throttle slowly until desired speed is obtained. (A)
- Push handle down and machine will move to the right (B). lift the handle up and the machine will move to the left (C)
- Slightly twist to the left and the machine will move to the left. The machine will remain stationary if you do not apply any force up or down.



Stopping the engine

- Never use the choke to stop the engine. Leave the machine run at an idle speed for 2-3 minutes to cool down .
- Move the Gas lever to minimum throttle. Turn the button, which is on the gasoline engine, to the OFF position to stop the machine lastly.

(Note: The illustration above is of the Pro 900, but the instructions are correct for the Pro 600X)

Environment



Safe Disposal.



Instructions for the protection of the environment.
The machine contains valuable materials. Take the discarded apparatus and accessories to the relevant recycling facilities.

Component	Material.
Handle	Steel
Belt Guard	ABS
Bedplate	Steel
Hand Grips	Rubber
Engine	Aluminium and Steel
Motor	Steel and Copper
Gearbox	Aluminium, Steel and Phosphor Bronze
Various Parts	Steel and Aluminium



Blade Adjustment

The blade pitch control knob is at easy reach of the operator. The pitch adjustment has an unlimited pitch variation and this can be undertaken whenever necessary. During finishing setting up/hardening may vary from area to area across the floor, so the pitch adjustment can be changed to suit accordingly while the machine is in operation. When transporting the trowel on a truck, always keep blades fully horizontal flat on the floating disc.



Transportation

For transportation of the machine use lifting eye. Alternatively to lift the machine, use an aid equipment through the stationary ring, which can carry the weight of the machine, with a carrying pipe on the back past of handle.



Troubleshooting Guide

Problem	Cause	Remedy
Engine will not start.	No fuel getting to engine.	Open fuel tap. Fill fuel tank.
	Engine switched off.	Switch engine on.
	Spark plug fouled.	Clean, check and reset plug gap.
	Engine cold.	Close choke.
	Engine flooded.	Open choke, fully open throttle, pull recoil starter until engine fires.
	Cutout switch wire	Reconnect disconnected wire.
Leaving Swirls in concrete, Rolling Concrete or Bouncing.	Main Shaft damaged.	Check and replace as necessary.
	Spider Plate arms bent.	Replace as necessary.
	Blades are unevenly adjusted.	Check and adjust as necessary.
	Blades are all different sizes.	Replace, ensuring all blades are the same size.
	Blades are worn.	Replace blades.



Servicing

Gearbox

Check oil level every month. On side of the gearbox there is an plug. Use "SHELL OMALA 220 (750ml)" gear oil or equivalent.

Machine Cleaning

Clean the machine after it has been used to prevent the collection of hardened cement. Hard concrete/cement paste is very difficult to remove. To clean it use an old brush or hand brush.

Changing of Blades

Be careful when changing old blades with new. Due to the way the blades wear, the old blades become very sharp, like a knife blade. As a safety precaution very heavy-duty gloves during this operation to prevent the hands being cut. Remove bolts and lock washers on each trowel arm and remove the blades. Before installing new blades clean all concrete/cement from bottom and side of the trowel, be sure trowelling edge of the blade is behind trowel arm. Install bolts and lock washers on each trowel arm and fasten securely.

Tightening the V-Belts

If you notice a loose on V belt, check the tightness. Especially in first using and V belt change. Check the V belt tightness after 8 hours later. Using your head finger push the V belt from its middle point. It must stretch about 2cm. If it stretches more, it is loose. For tightening; loose the motor fixing screws. (till motor moves away on the table) Loose the motor lock nut. Loose the screws, push the motor backward. Checking the V belt tightness, do the same operations. Until tightness of V belt is desired value, screw the motor lock nut, and then screw the motor fixing screws.

Servicing



Maintenance Table

	Daily	Weekly
Clean the machine using pressurized water.	✓	
Check the blade pitch adjustment.	✓	
Check the blade pitch bolts, and check other bolts on the machine. Tighten if necessary	✓	✓
Check engine oil level.	✓	
Clean air filter.	✓	
Check the V-Belt tightness.		✓
Check the blades.		✓
Change engine oil.		✓
Put oil on the grease fittings.		✓

Warranty



Your new Belle Group 'Pro 600X' Trowel is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase.

The Belle Group warranty is against defects in design, materials and workmanship.

The following are not covered under the Belle Group warranty:

1. Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
2. Alterations, additions or repairs carried out by persons other than Belle Group or their recognised agents.
3. Transportation or shipment costs to and from Belle Group or their recognised agents, for repair or assessment against a warranty claim, on any machine.
4. Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.

The following components are not covered by warranty.

- Drivebelt/s
- Engine air filter
- Engine spark plug

Belle Group and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

Warranty Claims

All warranty claims should firstly be directed to Belle Group, either by telephone, by Fax, by Email, or in writing.

For warranty claims:

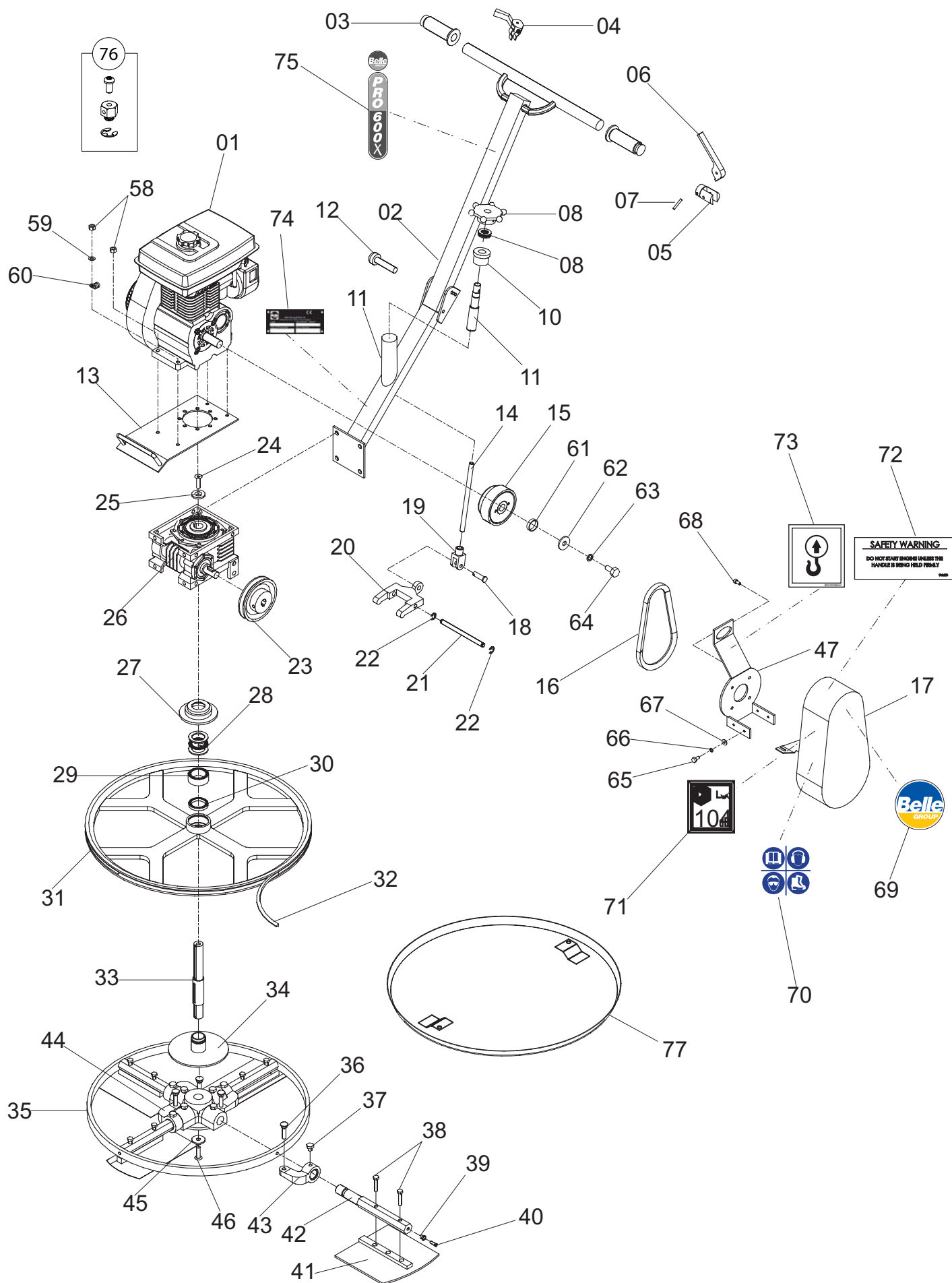
Tel: +44 (0)1538 380000 Fax: +44 (0)1538 380038

Email : Warranty@belle-group.co.uk

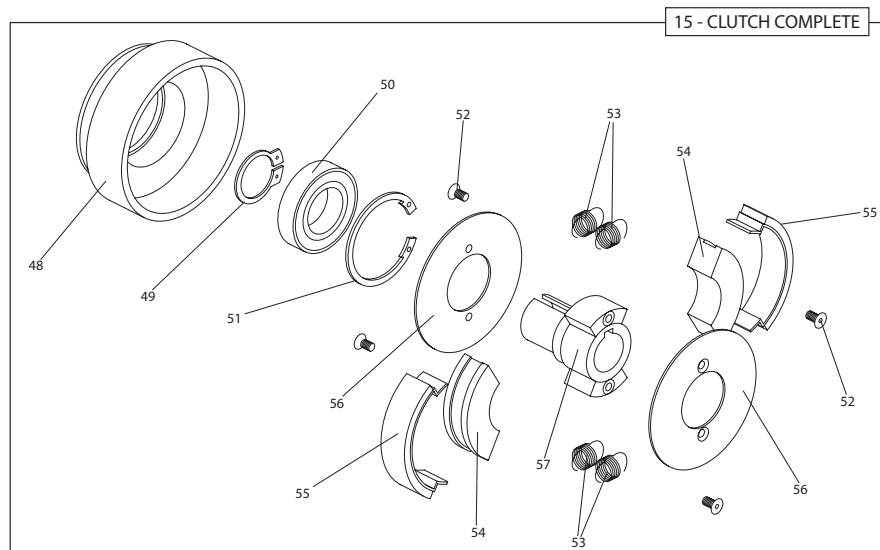
Write to:

Belle Group Warranty Department,
Unit 5, Bode Business Park,
Ball Haye Green,
Leek,
Staffordshire ST13 6BW
England.

Pro 600X - Petrol



Pro 600X - Petrol



ITEM ⁽¹⁾ NUMBER	PART ⁽²⁾ NUMBER	DESCRIPTION ⁽³⁾	QUANTITY ⁽⁴⁾	ITEM ⁽¹⁾ NUMBER	PART ⁽²⁾ NUMBER	DESCRIPTION ⁽³⁾	QUANTITY ⁽⁴⁾
1	29.1.149	Engine - GX 120	1	40	7-8055	Screw M8 X 20 H.B.C	4
	20-0056	Engine - EX13	1	41	945-99518	Blade Set	4
2	945-99500	Steering Arm	2	42	945-99519	Blade Arm	4
3	945-99545	Handle Grip	1	43	945-99520	Lift Lever	4
4	945-99537	Gas Throttle	1	44	945-99521	Spider Plate	1
5	945-99533	Stop Switch	1	45	4-1012	Washer	1
6	945-99534	Stop Switch Arm	1	46	945-99542	Screw M10X20 H.B.C	1
7	945-99536	Stop Switch Pin	1	47	945-99522	Backplate	1
8	945-99501	Blade Adjustment Wheel	1	48	945-99524	Coupling Cover	1
9	53-0033	Bearing (T77)	1	49	945-99525	Circlip	1
10	945-99502	Housing	1	50	53-0030	Bearing (6006 ZZ)	1
11	945-99503	Adjustment Shaft	1	51	945-99527	Circlip	1
12	945-99504	Steering Arm Pin	1	52	945-99542	Screw M5x10 H.B.C.I	4
13	945-00100	Engine Plate	1	53	945-99528	Clutch Springs	4
14	945-99506	Extension Shaft	1	54	945-99529	Shoe Parts	2
15	945-99523	Clutch	1	55	945-99530	Clutch Shoes	2
16	21-0167	V-Belt 12.5 x 700	1	56	945-99531	Cover	2
17	945-99507	Belt Cover	1	57	945-99532	Clamping Bush	1
18	945-99508	Yoke Pin	1	58	8-8001	M8 Nyloc Nut	4
19	945-99509	Blade Adjustment Yoke	1	59	4-8006	M8 Flat Washer	2
20	945-99510	Yoke Arm	1	60	900-10200	P Clip	2
21	945-99511	Yoke Shaft	1	61	945-99551	Clutch Spacer	1
22	945-99552	Circlip	2	62	05.3.062	5/16" Repair Washer	1
23	945-99543	Pulley	1	63	4-8003	M8 Spring Washer	1
24	945-99538	Screw M10 x 20	1	64	02.3.020	5/16 x 1" Bolt	1
25	4-3801	Washer	1	65	02.0.012	M6 x 16 Bolt	4
26	945-99512	Gearbox	1	66	4-6005	M6 Spring Washer	4
27	945-99513	Pressure Plate	1	67	05.3.066	M6 Flat Repair Washer	4
28	53-0034	Bearing (61808)	1	68	7-5162	5/16 x 3/4" Bolt	4
29	53-0035	Bearing (NKJ 40 x 20)	1	69	800-23809	Belle Logo Decal	1
30	53-0036	Bearing (51107)	1	70	19.0.373	4 in 1 Safety Decal	1
31	945-99514	Aluminium Ring	1	71	840-01910	Noise Level Decal	1
32	945-99544	V-Belt	1	72	19.0.230	Safety Warning Decal	1
33	945-99515	Main Shaft	1	73	800-99986	Lifting Eye Decal	1
34	945-99516	Pressure Cap	1	74	800-99803	Serial Plate	1
35	945-99517	Circle Plate	1	75	800-99973	Pro 600X Decal	1
36	945-99539	Screw M10 x 30 S.B.C	1	76	21-0243	Cable Holder Kit	1
37	7-10028	Screw M10 X 20 O.C	4	77	945-00200	Trowel Pan 600	1
38	7-6043	Screw M6 x 40	8				
39	4-1611	Washer	4				

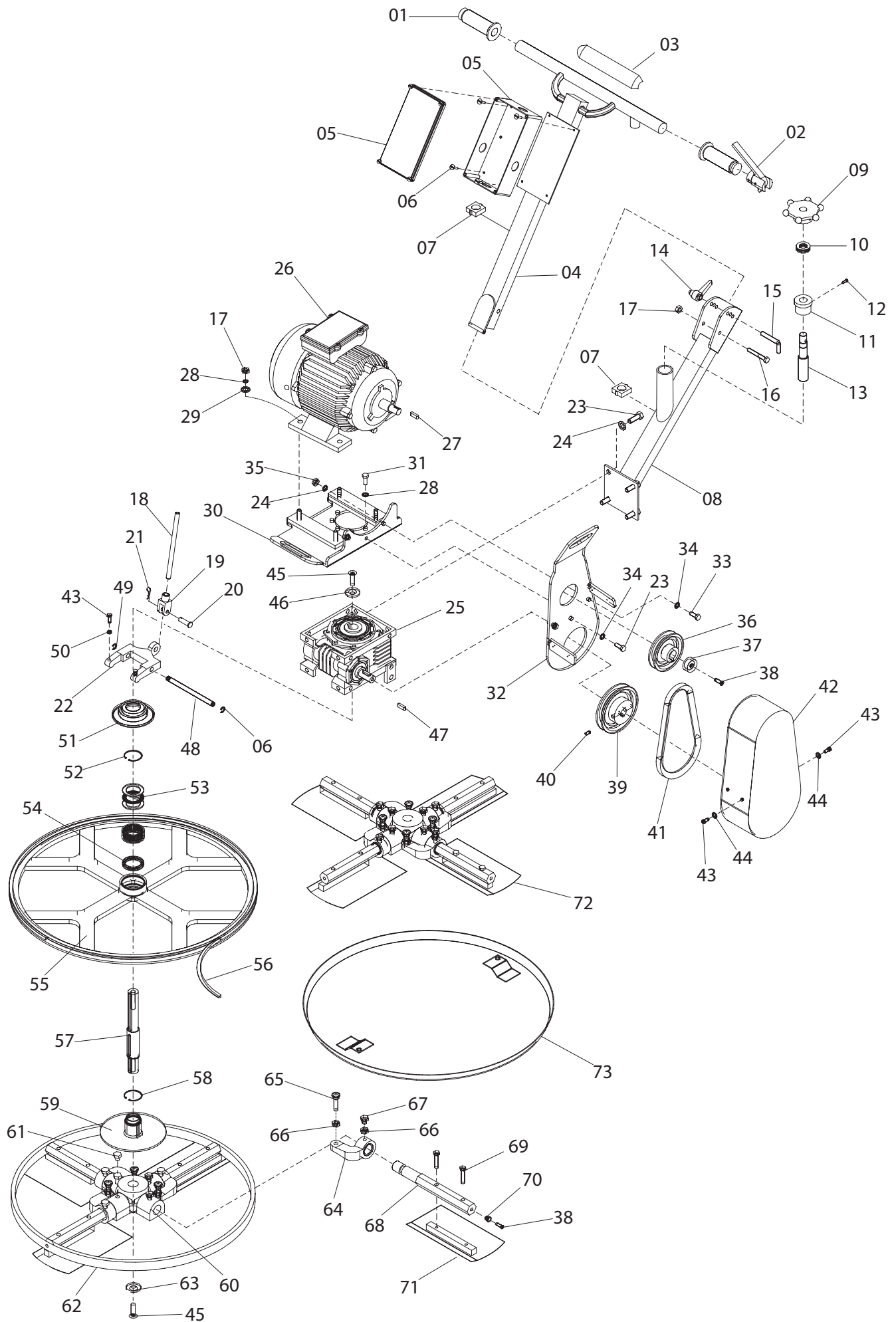
(1) Item Number / numéro sur le schéma / número de la ilustración / número da ilustração / afbeeldingsnummer / tegningsnummeret / Teil-Nummer / numero dell'illustrazione

(2) Part Number / Numéro de référence de la pièce / número de pieza / número da parte / stuknummer / Styknummer / Nummer auf der Abbildung / numero di parte

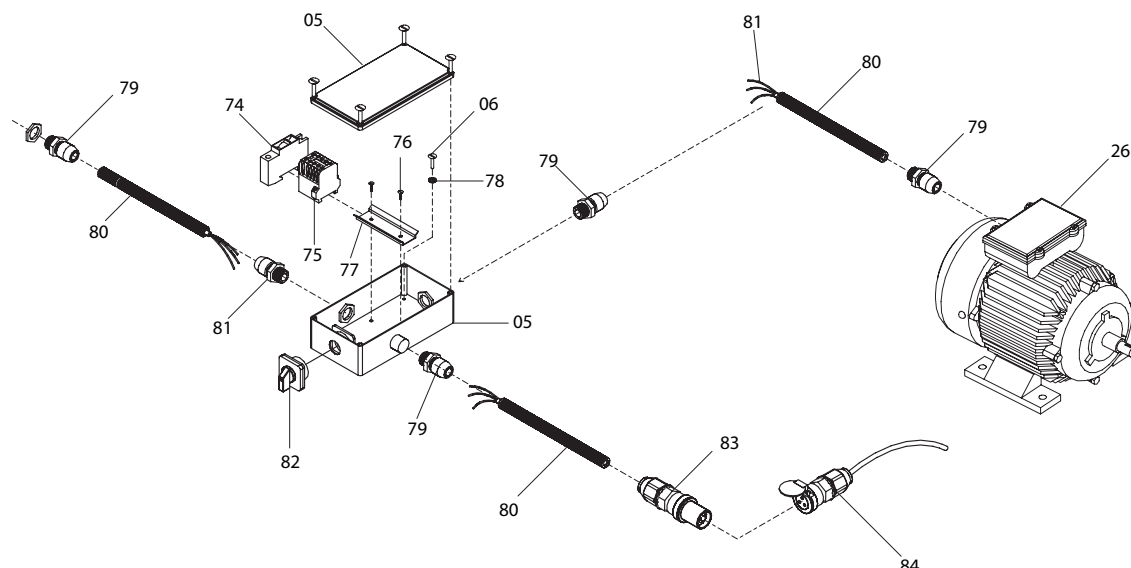
(3) Description / Désignation / Descripción / Descrição / Omschrijving / Beskrivelse / Bezeichnung / Descrizione

(4) Quantity / Quantité / Cantidad / Quantidade / Hoeveelheid / Mengen / Mængde / Quantità

Pro 600X - Electric



Pro 600X - Electric



ITEM ⁽¹⁾ NUMBER	PART ⁽²⁾ NUMBER	DESCRIPTION ⁽³⁾	QUANTITY ⁽⁴⁾	ITEM ⁽¹⁾ NUMBER	PART ⁽²⁾ NUMBER	DESCRIPTION ⁽³⁾	QUANTITY ⁽⁴⁾
1	945-99545	Handle	2	43	945-99588	Bolt	6
2	945-99553	Electric Stop Handle	1	44	945-99589	Washer Spring	4
3	945-99554	Steering Rubber	1	45	945-99548	Flat Head Screw	1
4	945-99555	Steering Upper Part	1	46	4-3801	Gearbox Washer	1
5	945-99556	Electric Box	1	47	945-99590	Key	1
6	945-99557	Screw	4	48	945-99591	Yoke Shaft	1
7	945-99558	Hook	2	49	945-99592	Circlip	2
8	945-99559	Steering Bottom Part	1	50	945-99593	Nut	2
9	945-99501	Blade Adjustment Wheel	1	51	945-99513	Thrust Bearing Plate	1
10	53-0053	Bearing	1	52	945-99594	Retaining Ring	1
11	945-99502	Bushing	1	53	945-99595	Bearing	1
12	945-99560	Hexagonal Bolt	1	54	945-99596	Bearing	1
13	945-99561	Blade Adjustment Shaft	1	55	945-99597	Aluminium Circle	1
14	945-99562	Bakelite	1	56	945-99544	V-belt	1
15	945-99563	Adjustment Pin	1	57	945-99515	Gearbox Shaft	1
16	945-99564	Bolt	1	58	945-99598	Retaining Ring	1
17	945-99565	Locknut	5	59	945-99599	Pressue Plate	1
18	945-99566	Extension Shaft	1	60	945-99600	Spider Plate	1
19	945-99567	Blade Adjusment Yoke	1	61	945-99601	Spider Screw	4
20	945-99568	Screw	1	62	945-99517	Circle Plate	1
21	945-99569	Cotter Pin	1	63	945-99602	Retaining Washer Spider	1
22	945-99510	Yoke	1	64	945-99603	Lift Lever	4
23	945-99570	Bolt	5	65	945-99604	Cup Square Bolt	4
24	945-99571	Washer	6	66	945-99605	Check Nut	8
25	945-99512	Gearbox	1	67	945-99606	Lift Lever Bolt	4
26	945-99572	Electric Motor	1	68	945-99607	Blade Shaft	4
27	945-99573	Key	1	69	945-99608	Bolt	8
28	945-99574	Washer Spring	9	70	945-99609	Special Bolt	4
29	945-99575	Washer	4	71	945-99518	Blade Set	4
30	945-99576	Engine Plate	1	72	945-99610	Spider Complete	1
31	945-99577	Bolt	5	73	945-99611	600 Disc	1
32	945-99578	Belt Guard	1	74	945-99612	16 Amp Automat	1
33	945-99579	Bolt	2	75	945-99613	Contactor 220w	1
34	945-99580	Washer Spring	3	76	945-99614	Screw	2
35	945-99581	Locknut	2	77	945-99615	Contactor Rail	1
36	945-99582	Pulley	1	78	945-99616	Washer	4
37	945-99583	Ring	1	79	945-99617	Cable Housing	5
38	945-99541	Flat Head Screw	5	80	945-99618	M14 Hose	3
39	945-99584	Gearbox Pulley	1	81	945-99619	Cable	9
40	945-99585	Special Bolt	2	82	945-99620	On / Of Switch	1
41	945-99586	V-belt	1	83	945-99621	Connector	1
42	945-99587	Belt Guard	1	84	945-99622	Appliance Inlet With Flange	1

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Belle Group reserves the right to alter details and specification without notice



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